

## EAST TEXT SEARCH

09/402,978

L Number	Hits	Search Text	DB	Time stamp
-	2	"9637281"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 09:32
-	0	hade near el near ibrahim	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 10:36
-	1	hugo near de near lasa	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 10:51
-	94	titanium adj dioxide adj photocatalyst and (ultraviolet or uv or irradiate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 11:08
-	68	titanium adj dioxide and (photocatalyst or photoreactor) and (ultraviolet or uv or irradiate) and (gas or air) adj stream	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 13:12
-	1	titanium adj dioxide and (photocatalyst or photoreactor) and (ultraviolet or uv or irradiate) and (gas or air) adj stream and venturi	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 13:12
-	1	(photocatalyst or photoreactor) and (ultraviolet or uv or irradiate) and (gas or air) adj stream and venturi	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 13:15
-	1	(photocatalyst or photoreactor) and (ultraviolet or uv or irradiate) and (gas or air) adj stream and venturi	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 13:15
-	2	(photocatalyst or photoreactor) and (ultraviolet or uv or irradiate) and (gas or air) and venturi	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 13:56
-	2	(photocatalyst or photoreactor) and (ultraviolet or uv or irradiate) and venturi	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 13:52
-	3	(photocatalyst or photoreactor) and venturi	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 13:53
-	2091	catalyst and venturi	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 13:53
-	149	catalyst and venturi and (uv or ultraviolet or irradiate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 09:39
-	27	catalyst and venturi and (uv or ultraviolet or irradiate) and titanium adj dioxide	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 13:55

-	140	catalyst and (ultraviolet or uv or irradiate) and (gas or air) and venturi	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/19 14:01
-	79	"5045288"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 09:32
-	762	venturi and (uv or ultraviolet or irradiate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 09:39
-	8	venturi and (uv or ultraviolet or irradiate) and (gas or air) adj (purify or treat or disinfect or sterilize or decontaminate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 14:17
-	261	venturi and (uv or ultraviolet or irradiate) and (gas or air) and (purify or treat or disinfect or sterilize or decontaminate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 09:44
-	9	venturi and (uv or ultraviolet or irradiate) and (gas or air) adj (purify or treat or disinfect or sterilize or decontaminate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 09:41
-	91	venturi and (uv or ultraviolet or irradiate) and (gas or air) with (purify or treat or disinfect or sterilize or decontaminate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 11:58
-	8	"5835840"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 11:59
-	712	venturi and (uv or ultraviolet or irradiate) and (gas or air)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 14:17
-	62	venturi adj tube and (uv or ultraviolet or irradiate) and (gas or air)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 14:29
-	514	venturi and (uv or ultraviolet or irradiate or sterilize or disinfect or decontaminate or purify) with (gas or air)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/23 14:33

Search Result

Rank(R) 1 of 1

Database  
WPI

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199143

Air cleaning catalytic oxidiser and ancillaries - using oil as fuel and comprises cold air blower, heat absorbing side of heat exchanger, heater, oxidn. reactor with catalyst, etc.

Patent Assignee: KAT-TEC GES KATALY (KATT-N); GUT GES UMWELTECHNIK MBH (GUTU-N)

Inventor: KOCH C

Number of Countries: 001

Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
DE 4012119	A	19911017	DE 4012119	A	19900414		199143 B
DE 4012119	C2	19990114	DE 4012119	A	19900414	B01D-053/86	199906

Priority Applications (No Type Date): DE 4012119 A 19900414

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
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DE 4012119	A		6			
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Abstract (Basic): DE 4012119 A

Air bearing a pollution load may be cleaned by catalytic oxidn.

within a reactor. Units forming the air cleaning assembly are in the sequence: cold air blower for polluted air; heat absorbing side of the heat exchanger; heater; oxidn. reactor with catalyst; the venturi mixer; and heat surrendering section of the heat exchanger. The venturi mixer is co-located with blower burner flame tube; the channel between the venturi-mixer outlet and the surrendering side of the heat exchanger has a connection for the blower; sensors are a control circuit which links; heater upstream; before, between and after the catalyst; heater; blower burner and the blower.

ADVANTAGE - Provides a reliable and economic air cleaning in an installation which may use oil as the fuel with no damage to catalyst during the warm-up phase. (6pp Dwg.No.0/2)

Title Terms: AIR; CLEAN; CATALYST; OXIDATION; ANCILLARY; OIL; FUEL; COMPRISE; COLD; AIR; BLOW; HEAT; ABSORB; SIDE; HEAT; EXCHANGE; HEATER; OXIDATION; REACTOR; CATALYST

Derwent Class: J01

International Patent Class (Main): B01D-053/86

International Patent Class (Additional): B01D-053/36

File Segment: CPI

Manual Codes (CPI/A-N): J01-E02D; J08-D04

END OF DOCUMENT

Search Result

Rank(R) 1 of 1

Database  
WPI

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199206

Purifying fresh and recirculated air in vehicle using photocatalyst -  
based on semiconductor in fixed stationary bed irradiated with UV light  
Patent Assignee: RUETGERSWERKE AG (RUTG ); PCP PHOTOCATALYTIC PURIFICATION  
GMBH (PCPP-N)

Inventor: OESTE F D

Number of Countries: 001

Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
DE 4023995	A	19920130	DE 4023995	A	19900728		199206 B
DE 4023995	C2	19940609	DE 4023995	A	19900728	B01D-053/00	199421

Priority Applications (No Type Date): DE 4023995 A 19900728

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
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DE 4023995	C2		4			
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Abstract (Basic): DE 4023995 A

Fresh air and interior air purificn. in vehicles is carried out  
with a semiconductor-based photocatalyst (I) irradiated with photons.  
The novelty is that the air is passed over a catalyst (combination),  
which is in a fixed stationary bed and irradiated with radiation in the  
300-400 nm range.

Zeolites may be used in adsorbent coatings on a catalyst support.

Pref. (I) contains Pt-gp. metal(s) as co-catalyst (II). (I) is placed  
on a support (III) which adsorbs all or pt. of the impurities sepd.  
from the fresh air. (III) pref. consists of metal wire or strip;  
expanded metal; or Al<sub>2</sub>O<sub>3</sub>, ceramic, SiC and/or (activated) carbon  
fibres. The radiation source and (I) bed are moved relative to one  
another continuously or periodically. (III) may also have an adsorbent  
coating, e.g. of SiO<sub>2</sub>, zeolites, Al<sub>2</sub>O<sub>3</sub> gel and/or activated carbon; or  
flocked with short fibres, pref. adsorbent materials with a large  
surface area, e.g. activated carbon, adsorbent resins, aerogel flakes  
and/or C black, using a physically and/or chemically hardening binder.

ADVANTAGE - Unlike fluidised beds, (I) is effective even when the  
motion of the vehicle is irregular.

Title Terms: PURIFICATION; FRESH; RECIRCULATE; AIR; VEHICLE; PHOTOCATALYST;  
BASED; SEMICONDUCTOR; FIX; STATIONARY; BED; IRRADIATE; ULTRAVIOLET; LIGHT

Derwent Class: J01; Q12

International Patent Class (Additional): B01D-053/36; B01J-021/06;

B01J-023/40; B01J-035/04; B60H-003/00

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): J01-E03C; J01-E03F

Derwent Registry Numbers: 1247-U; 1544-U; 1669-U; 1694-U

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